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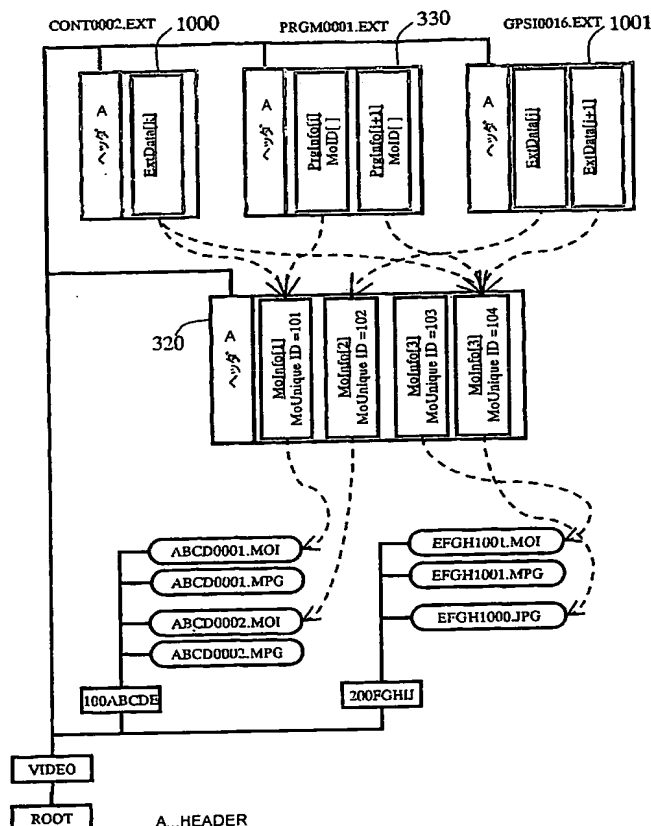
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- (81) 指定国 (表示のない限り、全ての種類の国内保護が可能): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SI, SK, SL, SM, SN, SR, ST, SV, SY, TD, TF, TG, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VE, VG, VI, VN, YU, ZA, ZM, ZW.

[続葉有]

(54) Title: RECORDING MEDIUM, RECORDING DEVICE USING THE SAME, AND REPRODUCTION DEVICE

(54) 発明の名称: 記録媒体およびこれを用いる記録装置並びに再生装置



(57) Abstract: A recording device includes: a recording section for recording information on a recording medium; a file system processing section for managing the aforementioned information as a file by using file system information having a directory hierarchical structure which can be referenced by a pass name; a content management information processing section for managing a directory and a file by using content management information; and an extension information processing section for managing extension information for the directory and the file. The content management information includes: medium object management information referencing the directory and the file by object reference information obtained by converting the pass name; and extension object management information for managing extension information. The directory, the file, and the extension information are correlated via the object reference information.

(57) 要約: 記録媒体に情報の記録を行う記録部と、前記情報を、パス名により参照可能なディレクトリ階層構造を有したファイルシステム情報を用いてファイルとして管理するファイルシステム処理部と、ディレクトリ及びファイルを、コンテンツ管理情報を用いて管理するコンテンツ管理情報処理部と、ディレクトリ及びファイルに対する拡張情報を管理する拡張情報処理部とを備えた記録装置である。コンテンツ管理情報は、パス名を変換して得られるオブジェクト参照情報によりディレクトリ及びファイルを参照するメディアオブジェクト管理情報と、拡張情報を管理する拡張オブジェクト管理情報とを含み、ディレクトリ及びファイルと拡張情報とが、オブジェクト参照情報を経由

して対応付けられている。



SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
UZ, VC, VN, YU, ZA, ZM, ZW.

- (84) 指定国 (表示のない限り、全ての種類の広域保護が可能): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), ユーラシア (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), ヨーロッパ (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

添付公開書類:

- 国際調査報告書

— 請求の範囲の補正の期限前の公開であり、補正書受領の際には再公開される。

2 文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/004421

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ G06F12/00, G11B20/10, G11B20/12, G11B27/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ G06F12/00, G11B20/10, G11B20/12, G11B27/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	JP 2002-199335 A (Matsushita Electric Industrial Co., Ltd.), 12 July, 2002 (12.07.02), Par. Nos. [0030] to [0037]; Figs. 3 to 4 & WO 2001/080557 A1 & CN 1366767 T & US 2002/156986 A1 & EP 1277340 A	1, 5, 9, 17, 23-24 2-4, 6-8, 10-16, 18-22, 25-27
X A	JP 2001-22626 A (Sony Corp.), 26 January, 2001 (26.01.01), Par. Nos. [0023] to [0025]; Figs. 4 to 5 (Family: none)	1, 5, 9, 17, 23-24 2-4, 6-8, 10-16, 18-22, 25-27
A	JP 11-162089 A (Toshiba Corp.), 18 June, 1999 (18.06.99), Par. Nos. [0046] to [0049]; Fig. 4 & US 2003/161614 A1	1-27

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
13 August, 2004 (13.08.04)Date of mailing of the international search report
31 August, 2004 (31.08.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/004421

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2003-76590 A (Konica Corp.), 14 March, 2003 (14.03.03), Par. Nos. [0060] to [0072]; Figs. 7 to 10 (Family: none)	1-27